

**Claims:**

1. A stopper comprising a butyl based rubber and another stopper component, wherein the combination of the butyl based rubber and the other stopper component results in a reduced leakage of substances compared to the leakage of substances from a stopper made from a butyl based rubber alone.
2. The stopper according to claim 1, wherein the other stopper component is a polymer.
3. The stopper according to claim 2, wherein the other stopper component is a thermoplastic polymer.
4. The stopper according to any one of the preceding claims having a hardness of 40-80 Shore A.
5. The stopper according to claim 2, for a medical container, comprising an injection-mouldable material made of a blend of 10-30% by weight of a thermoplastic polymer and 70-90% by weight of a butyl based rubber.
6. The stopper according to claim 2, wherein the thermoplastic polymer is a polyolefin.
7. The stopper according to claim 1 having a hardness of 45-75 Shore A.
8. The stopper according to claim 1 having a hardness of 65-75 Shore A.
9. The stopper according to claim 1, for a medical container, comprising an injection-mouldable material made of a blend of 10-30% by weight of a thermoplastic polymer and 70-90% by weight of a butyl based rubber.
10. The stopper according to claim 1 for a medical container, comprising an injection-mouldable material made of a blend of 13-25% by weight of a thermoplastic polymer and 75-87% by weight of a butyl based rubber.
11. The stopper according to claim 1, wherein the thermoplastic polymer is a polyolefin.

12. ✓ The stopper according to claim 11, wherein the thermoplastic polymer is selected from the group of polyolefines consisting of a polypropylene and polyethylene.

5 13. ✓ The stopper according to claim 1, wherein the butyl based rubber is halogenated butyl.

10 14. ✓ The stopper according to claim 1, wherein the butyl based rubber is a bromobutyl.

15 15. ✓ The stopper according to claim 1, wherein the butyl based rubber is at least partially cross-linked.

16. The stopper according to claim 1, having a substantially circular cross-section.

17. The stopper according to claim 1, capable of gliding longitudinally inside a medical container by applying force to the stopper.

18. The stopper according to claim 17 where the applied force to the stopper is through a rod.

19. A medical container for storing a liquid medicament, comprising a distal and a proximal end portion and at least one wall defining an interior space for such liquid medicament, wherein one of the end portions comprises a stopper as defined in claim 1.

20. The medical container according to claim 19 wherein the at least one wall is non-flexible.

21. A process of producing a stopper according to claim 1, comprising the steps of:

- heating a butyl based rubber and melting a thermoplastic polymer,
- homogenising the stopper material.
- moulding the stopper material by injection moulding and
- obtaining the stopper.

22. A process of producing a stopper according to claim 21, whereby the stopper is moulded on to a rod by the means of two-component injection moulding.

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